

Endurance Testing Machine for Key Lock

Endurance testing of various components is extremely important in automobile industry because it ascertains the life of components and parts under extreme conditions. One of the most important part in automobile is Key Lock which ascertains the proper function of locking/unlocking & continuity. This is important to ensure the proper ignition of the vehicle. PRC has designed & developed a dedicated Endurance Testing Machine for Key Locks for online testing as well as endurance testing. The machine is designed to test the Key Locks of two wheelers & four wheelers where Key locks are tested in two & three steps.

Salient Features:

- Suitable for automobile Key Locks continuity & endurance testing (two & three steps)
- Reliable & dependable
- User friendly operation & easy to operate
- Microcontroller based digital display system
- Computerized model for transfer of data and printing
- Precision & accurate measurement of torque & angle
- Robust construction to suit Industrial environment
- Non-stop performance
- Sound service backup



Machine Function:

Immediately after power is ON, Machine check HOME & operator starts the stepper/servo motor to operate the fixture in which key lock is fixed. A suitable fixture is provided to fix the key lock. Machine checks step by step continuity & torque simultaneously. All the steps are checked one by one with respect to continuity & torque. If any of parameter i.e. torque or continuity is not found OK, machine will reject the key lock. Torque is displayed on indicator and also the no. of cycles completed. Machine will produce buzzer if the key lock is not OK and information about the failure of particular wire in case of continuity displayed on indicator.

Technical Specification:

- Controller - Microcontroller type
- Display - 2 Lines 16 digit, LCD
- Keypad- 8 keys keypad
(to set the parameters)
- Input- 16 Digital inputs
- Output- 16 Digital outputs
- Sensor- Static Torque sensor
▪ (suitable capacity)
- Sensor range- Selectable as per user requirement
- Memory- For cycle counter provided
- Modes of operation- Four modes provided for Online testing/Endurance for 2/3 steps of key lock
- Fixture- Metallic fixture to fix the key lock
- Motor- Stepper / Servo motor to operate the fixture
- Indication- OK / Reject with Buzzer facility
- Time range - Settable as per requirement in computerized version
- Endurance cycle - Settable, resumes from the point power failed (Fail safe)
- Optional- Computerized model



Computerized Key Lock Endurance Testing Machine (Optional):

In addition to above, PRC offers computerized version of above model which facilitates user to transfer the test data of continuity & endurance direct on computer. This model stores the input data to plot a graph with respect to Torque V/s Angel & Torque V/s Time. This version also provides the print out facility of graphs & retrieval of data at later stage.

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We also manufacture:

- ✓ Design & Development of Customized requirements
- ✓ Microcontroller Based Systems for Load, Pressure, Torque, Displacement, Temperature, Multifunction Digital Indicators, Batching Systems, Data Acquisition Systems, Air Leakage Testing System, Light Testing System, Computerization of Materials Testing Machines, Timers, Counters, Production Counter, Impact Tester, Hardness Tester.